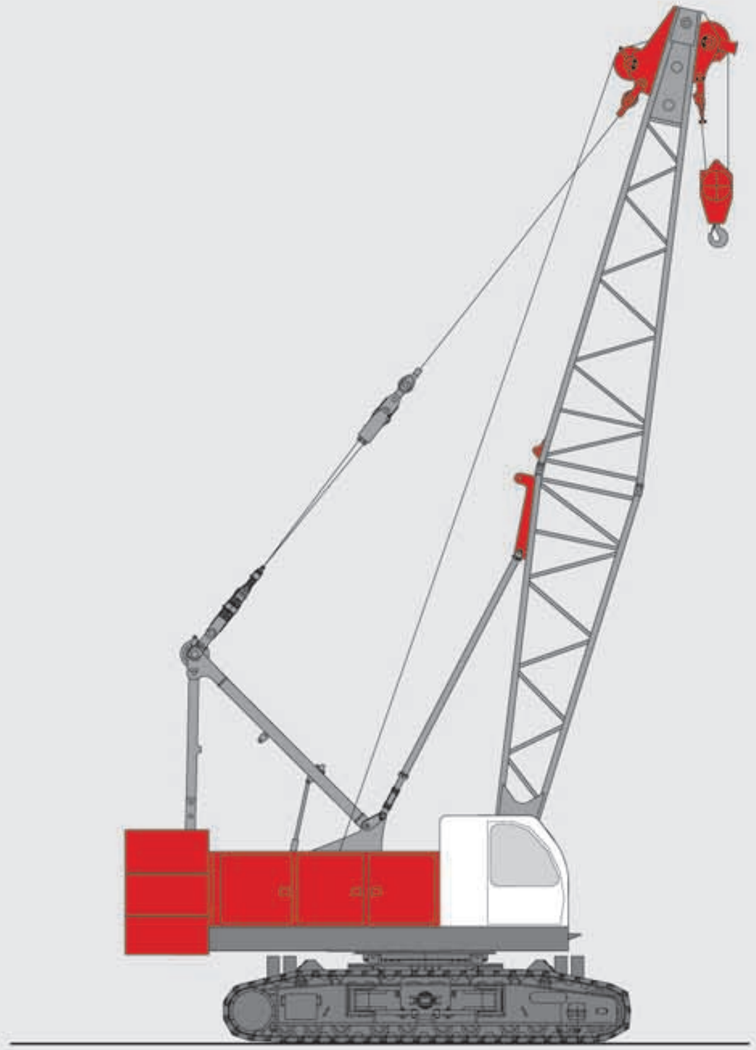
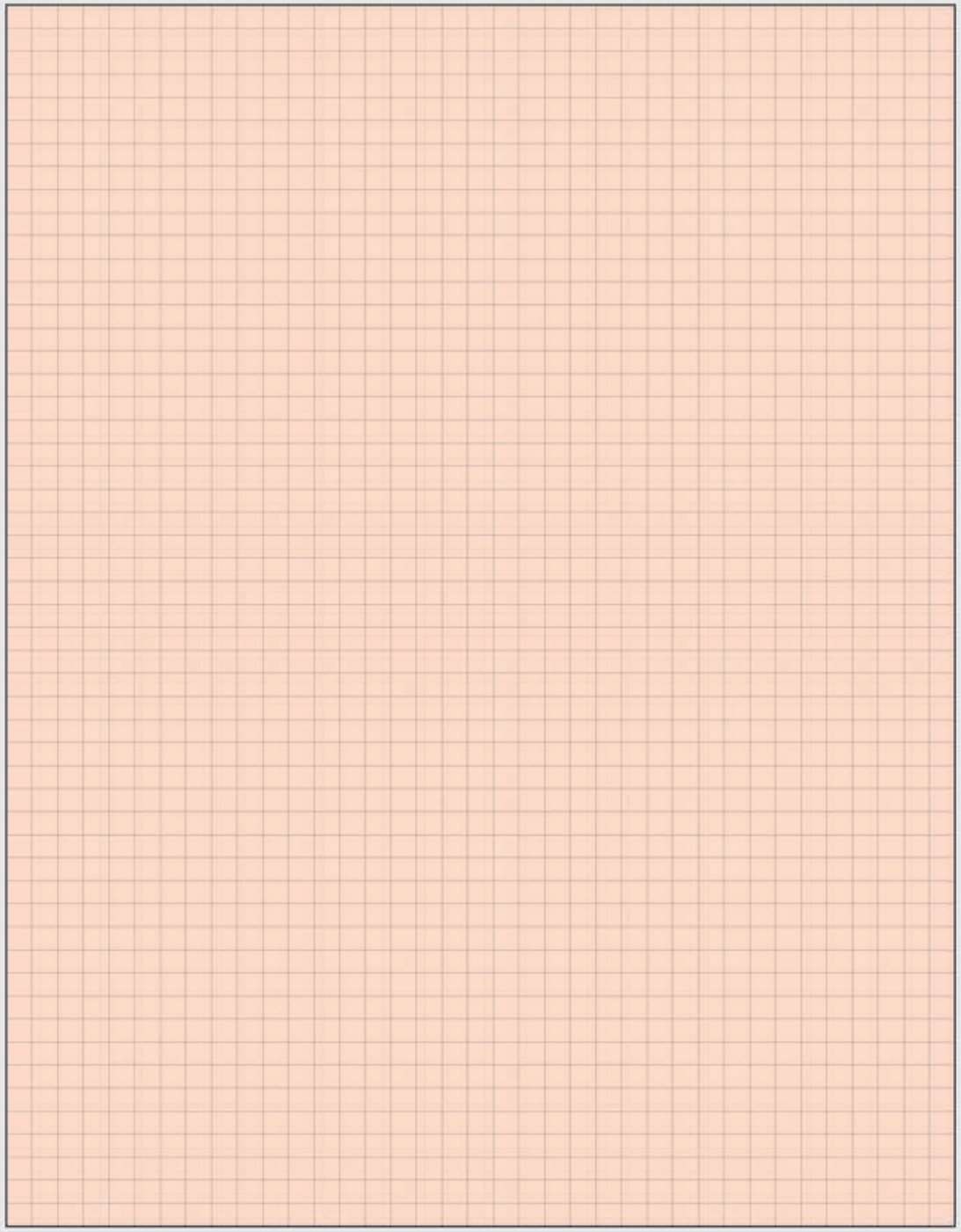
抚顺挖掘机制造有限责任公司
地址：辽宁省抚顺市顺城区双阳路2号
邮编：113126
网址：www.cnfuwa.com
销售公司电话：+86-413-7647 989/7642 419
传真：+86-413-7642 419
售后服务中心电话：+86-413-7641 727
电子信箱：sale@cnfuwa.com
进出口公司电话：+86-413-7649 117/7642 558
传真：+86-413-7642 766
电子信箱：export@cnfuwa.com
免费服务电话：800-890-0009

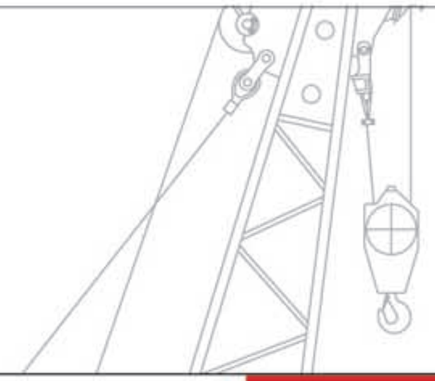
FUSHUN EXCAVATOR CORPORATION LTD.
Add: No.2 Shuangyang Road, Shuncheng District,Fushun Liaoning,China
p.c.113126
http://www.cnfuwa.com
China Market Sale Dept. Tel: +86-413-7647 989/7642 419
Fax: +86-413-7642 419
After sale Service Dept. Tel: +86-413-7641 727
E-mail: sale@cnfuwa.com
Import & Export Dept. Tel: +86-413-7649 117/7642 558
Fax: +86-413-7642 766
E-mail: export@cnfuwa.com

液压式履带起重机
HYDRAULIC CRAWLER CRANE
QUY90

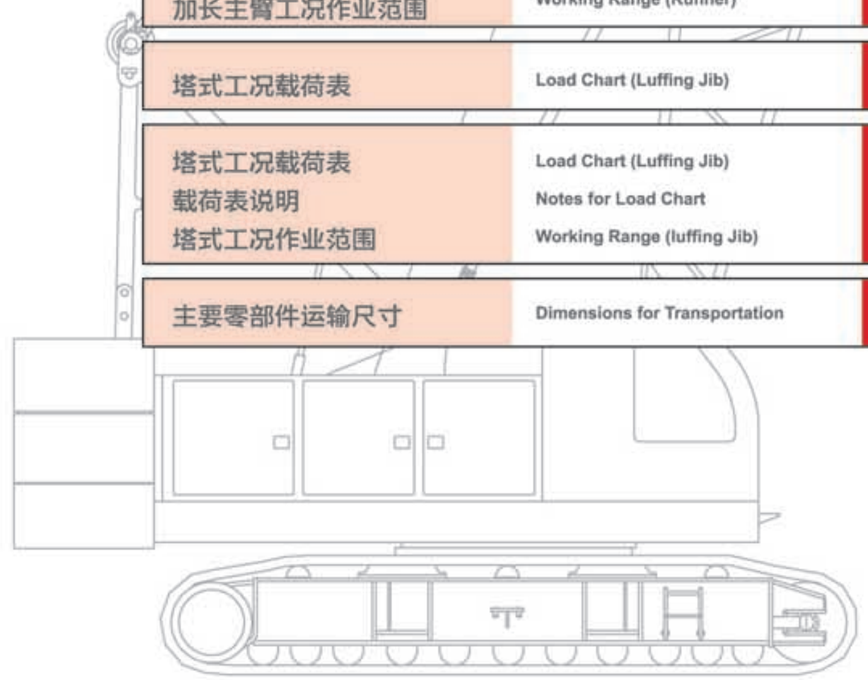


抚顺挖掘机制造有限责任公司
FUSHUN EXCAVATOR CORPORATION LTD.





目录 Content



安全装置

吊钩和臂架防过卷装置	吊钩和臂架防过卷装置是用于防止因过卷导致的机器损坏或后翻事故。
吊钩防过卷装置	当起重钩提升到一定高度时，将重锤托起，则微动开关由弹簧复位，开关接点断开，控制继电器动作使蜂鸣器报警，报警指示灯闪亮，同时，控制器锁定起重钩的提升，起重钩提升动作自动停止。
臂架防过卷装置	臂架后设有防倾杆，主臂上限角度由力矩限制器和主臂上限位开关检测控制。 当主臂≥上限位角度80°时，力矩限制器声光连续报警，并输出信号. 主臂停止升臂. 同时,主臂上限位开关动作，主臂上限位开关回路被切断.主臂停止升臂。
力矩限制器	限制器对起重机作业进行实时监控，当车运输或者工作的时候由限制器来测试各种参数再由显示器反映给驾驶员。在各种工况下,通过按键设置工况参数。 当额定起重力矩的0%≤ 起重力矩＜额定起重力矩的90%时，力矩限制器显示屏上,力矩百分比条形码绿色点亮，限制器无声音报警。 当额定起重力矩的90%≤起重力矩＜额定起重力矩的100%时，力矩限制器显示屏上，力矩百分比条形码黄色预警，同时限制器发出声音断续报警。 当额定起重力矩的100%≤起重力矩＜额定起重力矩的105%时，力矩限制器显示屏上，力矩百分比条形码红色报警，同时限制器发出声音连续报警。 当起重力矩≥额定起重力矩的105%时，力矩限制器显示屏上，力矩百分比条形码红色报警，限制器发出声音连续报警，同时输出信号，主、副钩停止提升，臂停止增幅动作。
负载率指示灯	为了便于现场人员了解机械载荷情况，采用了与交通信号相同的3色负载率指示灯。同时配备了司机与吊装指挥人员联系用的对讲机。
风速仪	风速仪-臂架顶部的风速传感器装置用于检测风速,力矩限制器显示风速。通过对风速的测试来给驾驶员一个参考，进而能确定车的工作环境。
制动器和锁定装置	制动器 本起重机设有主、副卷筒制动器、主、副变幅卷筒制动器，回转制动器. 锁定装置 本起重机设有主、副卷筒棘爪锁定装置、主变幅卷筒棘爪锁定装置、回转锁定装置。
拉力传感器、角度传感器	拉板上设有拉力传感器，用于检测拉力。 主臂根部装有角度传感器,用于检测主臂的角度。
水平仪	该装置用于检测机体与水平地面的角度，用来保证机器工作地面符合要求。
角度盘	主臂架根处设有机械式角度盘,在吊运和提升的时候用来显示臂架当前角度，给驾驶员一个详细的参考。
防倾杆限位保护	基础臂节设有防倾杆，作用是在提升和吊运的情况下，如果重物的质量很大而且在不定风速的情况下，很有可能使主臂往后过倾。这个装置避免了此类情况的发生。
回转报警	回转机构设有蜂鸣器，当上车回转时，这个装置会自动发出声音断续报警，可按回转静音解除报警。

Safety Device

Hook and boom over-hoist prevention devices	Hook and boom over-hoist prevention devices are used for preventing the crane from the accidents because of the over-hoist.
Hook over-hoist prevention device	When the hook lifts up to certain height and touches the plumb, the limit switch shall be disengaged by the reposition spring, and then the switch cuts off the control circuit. The control relay makes the buzzer alarm and the indicator lights up. At the same time, the rise of the hook will stop automatically.
Boom over-hoist prevention device	The boom upper limit angle is controlled by moment limiter and boom upper limit switch. When the boom upper limit angle is more than 80, the moment limiter will continuously alarm and send out the signal. The rise of boom will stop. At the same time, the limit switch is cut off. The boom stops rising.
Moment limiter	The device monitors the work of the crane. You can press the key to set the parameters of all working conditions. When the actual load is less than 90% of rated load, the screen shows load proportional bar in green color, and no warning alarm from the safe load indicator。 When the actual load exceeds 90% of rated load while is less than 100% of rated load, the screen shows yellow color and an intermittent warning alarm sounds。 When the actual load exceeds 100% of rated load while less than 105% of rated load, the monitor screen shows red color and the safe load indicator gives continuous warning alarm, and output control signal。 When the actual load exceeds 105% of rated load, the monitor screen shows red color and gives out a continuous warning alarm, at the same time the safe load indicator put out control signal to stop the hoisting action of main and auxiliary hooks and boom.
Three-color load indicator	The three-color load indicator is installed on the crane in order to inform the personnel on site of the current situation. The driver and the signal personnel are equipped with the interphone for the convenience of contact.
Anemometer	Anemometer- the wind speed sensor is installed on the top of boom to test wind speed. The moment limiter displays wind speed. The driver can specify the working environment referring to the test of wind speed.
The brakes and locking devices	Brakes: the brakes on the main and aux. drums, the brakes on the main and aux. derricking drums, slewing brake. Locking devices: main and auxiliary winch pawls, main derricking drum pawls and slew locking device.
Pull sensor, angle sensor	The pull senor is installed on the pendant bar to test the pull. The angle sensor is installed on the boom foot to test boom angle.
Gradienter	The device is used for testing the angle between the machine and the ground to ensure the conditions of the ground meet the requirements.
Angle scale	The angle scale is installed on the boom foot to show the current angle of boom when the crane is lifting the load.
Limit protection of back stop	The back stop is installed on the boom foot to prevent the tipping-over of the boom due to the heavy load and uncertain wind speed.
Swing alarm	The buzzer is installed on the swing device. The buzzer may sound continuously when the boom derricking reaches limit position.

详细说明

上车结构

动力装置

型号 QSL-9进口康明斯电控柴油机。

类型 水冷式，直喷，带涡轮增压器。

排量 8.9L

额定功率 209kw/1800rpm

最大扭矩 1300N.m/1400rpm

燃油油箱容量 400L

液压油箱容积 570L

液压系统

发动机在采用变量双主泵（带伺服泵）+回转泵+变量泵+冷却泵，一组M7-LUDV多路阀，该系统具有泵控系统的永远全工作范围控制的精密控制（优于阀控），同时能实现行走、变幅、回转和卷扬复合动作时的组合。油冷却器独立温控散热，回转独立闭式控制，各卷扬独立系统控制。

电子监控系统

电子监控器适时显示并具有故障查询功能，CAN-BUS总线控制。

主、副提升卷扬装置

主、副提升卷扬装置，由变量柱塞马达通过行星减速机驱动。湿式片式常闭制动器。

主提升卷扬装置

卷筒 节圆直径φ610mm

钢丝绳直径 φ26mm

钢丝绳长度 220m

最大绳速 112m

副提升卷扬装置

卷筒 节圆直径φ610mm

钢丝绳直径 φ26mm

钢丝绳长度 260m

最大绳速 112m

主臂变幅系统

由液压变量柱塞马达通过行星减速机驱动。湿式片式常闭制动器。

卷筒 节圆直径φ440mm

钢丝绳直径 φ20mm

钢丝绳长度 170m

最大绳速 55m

回转系统

由2个马达通过行星减速机带动齿轮驱动，可旋转360°

速度 0-2.1转/分钟

四个位置止动销锁定。

驾驶室

司机室与机罩外表面都是考漆。宽度920mm，前窗采用大弧形面，视野好。带有空调和暖风机，雨刷器、车载VCD系统。大屏幕电子监控器和力矩限制器，采用LED显示器显示风速，可调座椅等。还有采用了扶手椅式控制手柄，十字控制，能够以舒适的姿势进行操作。配置了空调装置，使司机能够在舒适的环境下工作。

配重

配重底板为焊接结构，重1.5吨，三块铸铁配重，总重为26.2吨。采用悬挂式；便于安装和拆卸。

下车结构

底座

用高强度板焊接X型框架结构，与履带架采用插入式连接，便于快速安装和拆卸。它们的特点是外形美观；抗扭抗弯性能好。

支重轮装置

每侧各有10个，所有的支重轮均装有铜套和浮动式密封以及耐磨润滑油。

下机架支撑油缸装置

四个液压顶升油缸连接在下机架的支撑梁上进行伸/缩动作

履带板

左、右履带行走装置共有108块履带板，每块履带板的宽度为860mm。履带板的张紧程度可以通过液压千斤顶进行调节，调节垫片的位置达到理想的张紧度。

履带动力

独立的液压驱动系统嵌入履带架内。每侧液压驱动系统包含了一个液压马达并通过行星减速机带动驱动轮。液压马达和减速机嵌入履带结构内，不超出履带宽度。

行走速度 0．9/1.4千米/小时

爬坡能力 30%（17°）

作业装置

臂架主弦管采用进口高强管，变幅装置采用钢压扣缆绳；大大提高了有效载荷。

主臂

臂架为中间等截面，两端变截面的空间桁架式结构,钢管焊接。标准臂从13—61米。

塔式工况组合

塔臂与主臂组合，主臂有三种角度：86°、76°66°；主臂长度从25.8米—43.8米。

塔臂角度从15°—70°，塔臂长度从21米—39米。主臂+塔臂的最大长度为 45.8米+39米 。

吊钩

90吨吊钩　50吨吊钩　30吨吊钩　11吨吊钩

Specifications

Superstructure

Power device

Model: QSL—9 diesel engine imported from Cummins

Type: Water-cooled, direct fuel injection with turbocharger actuator

Displacement: 8.9L

Rated power: 209kw/1800 rpm

Maximum torque: 1300N.m/1400rpm

Capacity of fuel tank: 400L

Capacity of hydraulic oil tank: 570L

Hydraulic system:

The system adopts double variable displacement main pumps (with servo pump), swing pump, variable displacement pump, cooling pump and a group of M7-LUDVmulti-circuit valves. The pump control system is superior to valve control system. The system can realize simultaneous operations: travel, derricking, swing and hoisting. The oil cooler independently controls the temperature. Swing is closed-controlled independently. All winches are controlled independently.

Electronic monitor system

The electronic monitor system controlled by CAN-BUS has the functions of displaying and troubleshooting.

Main winch and aux. winch

The main and auxiliary winches are driven by the hydraulic variable plunger motors through the planetary reduction gear. The wet-disc brake is often engaged.

Main winch

Drum: the diameter ϕ610mm
The diameter of wire rope: ϕ26mm
Length of wire rope: 220m
Maximum rope speed: 112m/min

Aux. winch

Drum: the diameter ϕ610mm
The diameter of wire rope: ϕ26mm
Length of wire rope: 260m
Maximum rope speed: 112m/min

Boom derricking system

The main and auxiliary winches are driven by the hydraulic variable plunger motors through the planetary reduction gear. The wet-disc brake is often engaged.

Drum: the diameter ϕ440mm
The diameter of wire rope: ϕ20mm
Length of wire rope: 170m
Maximum rope speed: 55m/min

Swing system

The swing system provides 360°rotation. The swing unit is driven by two hydraulic motors through planetary reduction gear.
Swing speed: 0～2.1r/min
Swing lock: four position lock

The cabin

The outside of cabin is painted well. The width of the cabin is 920mm.The front window is inclined and the posts are designed with the cross section with high strength. There are air-conditioner, heater, rear view mirror, wiper, stereos and fire extinguisher in the cabin. The electronic monitor and moment limiter with large screen are in the cabin. The seat can be adjusted.

Counterweight

The tray of counterweight adopts welding structure. Its weight is 1.5t. There are three pieces of counterweight which is made of cast iron. The total weight is 26.2t. The counterweight can be suspended for the convenience of assembly and dismantling.

Undercarriage

Lower frame X-type structure welded with steel plate which has high strength. The Lower frame connects side frames with drive pins for convenience of installation and disassembly. It has features: beautiful appearance and good torsion-resistance.

Track Roller Each side has 10 track rollers track rollers are equipped with bushings, seals and lubricating oil.

Jack-up cylinders

The four hydraulic jack-up cylinders are connected with the beam.

Track shoe

The left and right crawlers have 108 track shoes. The width of the track shoe is 860mm. The tension state of track shoe can be adjusted by the hydraulic jack until the adjusting plate reaches the ideal position.

Crawler drive

Independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a drive sprocket through a planetary reduction gear. Hydraulic motor and reduction gear are built into the crawler side frame within the shoe width.

Travel speed 0.9 /1.4km/h

Grade ability 30%（17°）

Working Equipments

The main steel pipe with high strength is imported; the derricking device adopts wire rope with the clamp to improve the efficiency.

Boom

The insert section has the equal cross section. The top and the foot have the variable cross sections. The boom is the lattice structure welded with steel pipes, standard boom: 13-61m.

Luffing jib combination

Luffing jib and boom combination: boom angle has three kinds: 86°,76°66°; boom length is from 25.8m～43.8m.

Luffing jib angle is from 15°to 70°. Length of luffing jib is from 21m to 39m. Maximum length of boom and luffing jib: 45.8m+39m.

Hook block

90T Hook block　50T Hook block
30T Hook block　11T Hook block

工况符号　The symbols of working conditions

标准主臂工况
Standard Boom

加长主臂工况
Runner

塔式工况
Luffing jib

臂杆组合 Boom Combination

标准主臂
最大起重量：90吨x4米
最大臂杆长度：61米

Standard Boom
Max. Lifting capacity:
90tx4m
Max. Boom length:
61m

主臂 Boom
13m-61m

加长主臂
最大起重量：9吨x20米
最大臂杆长度：61米

Runner
Max. Lifting capacity:
90tx20m
Max. Boom length:
61m

主臂 Boom
13m-61m

塔式工况
最大起重量：18.4吨x12米
最大组合：43.8米+39米

Fixed Fly Jib
Max. Lifting capacity:
18.4tx12m
Max. Combination:
43.8m+39m

主臂 Boom 25.8m-43.8m | 塔臂 Luffing jib 21m-39m

主要技术参数 Technical Data

项　目			单 位	数 值
主臂最大额定起重量			t	90
标准主臂长度			m	13—61
塔式工况主臂长			m	25.8—43.8
塔式工况塔臂长			m	21—39
吊钩配置			t	90/50/30/11
工作速度	钢绳速度	提升	m/min	*高速112/56 低速78/39
		下降	m/min	*高速112/56 低速78/39
		起重臂上升	m/min	*55
		起重臂下降	m/min	55
		回转速度	r/min	0—2.1
		行走速度	km/h	*0.9—1.4
主提升倍率	10		单绳拉力	13t
爬坡能力（带基本臂，司机室置于后方）			%	30
柴油机额定输出功率/转速			KW/rpm	美国康明斯QSL-9 209/1800
整机质量（带基本臂）			t	88
接地压力（带基本臂）			Mpa	0.087
配重质量			t	26.2

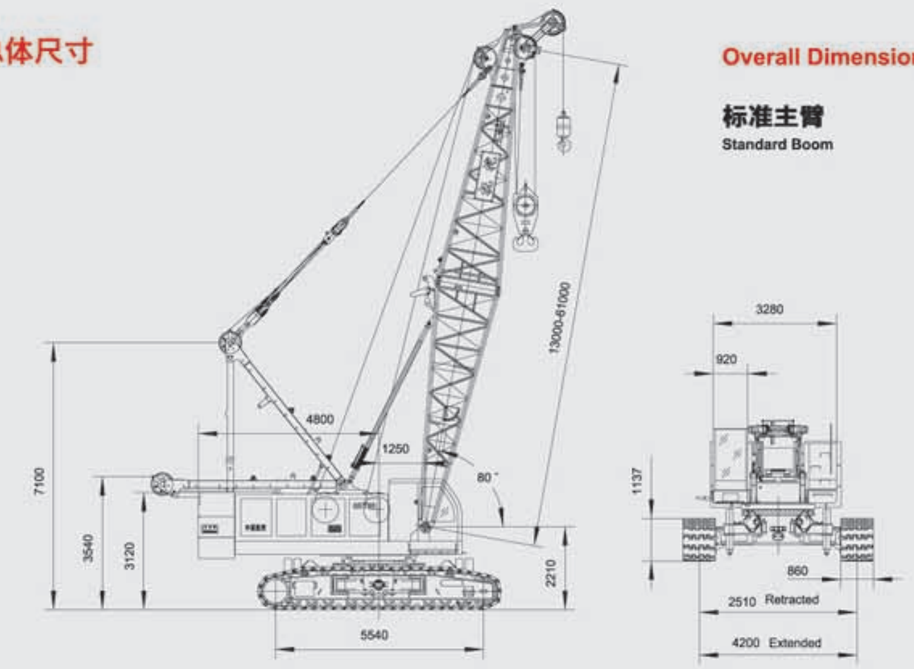
注：带※速度是随载荷的不同而变化。

Descriptions			Unit	Value
Max. Lifting Capacity			t	90
Length of standard boom			m	13—61
Boom Length when mounted with luffing jib			m	25.8—43.8
Length of luffing Jib			m	21—39
Kinds of hook block			m	90/50/30/11
Working speed	Line Speed	Hoist	m/min	*High112/56 Low78/39
		Lower	m/min	*High112/56 Low78/39
		Boom hoist	m/min	*55
		Boom Lower	m/min	55
		Slew speed	r/min	0—2.1
		Travel speed	km/h	*0.9—1.4
Parts of line	10		Single pull	13t
Grade ability (with basic boom and cabin on rear side)			%	30
Rated power output/rotating speed of diesel engine			KW/rpm	Cummins QSL-9 209/1800
Mass of the crane (with basic boom)			t	88
Ground pressure (with basic boom)			Mpa	0.087
Counterweight			t	26.2

Note: Speed with *may vary with the different load.

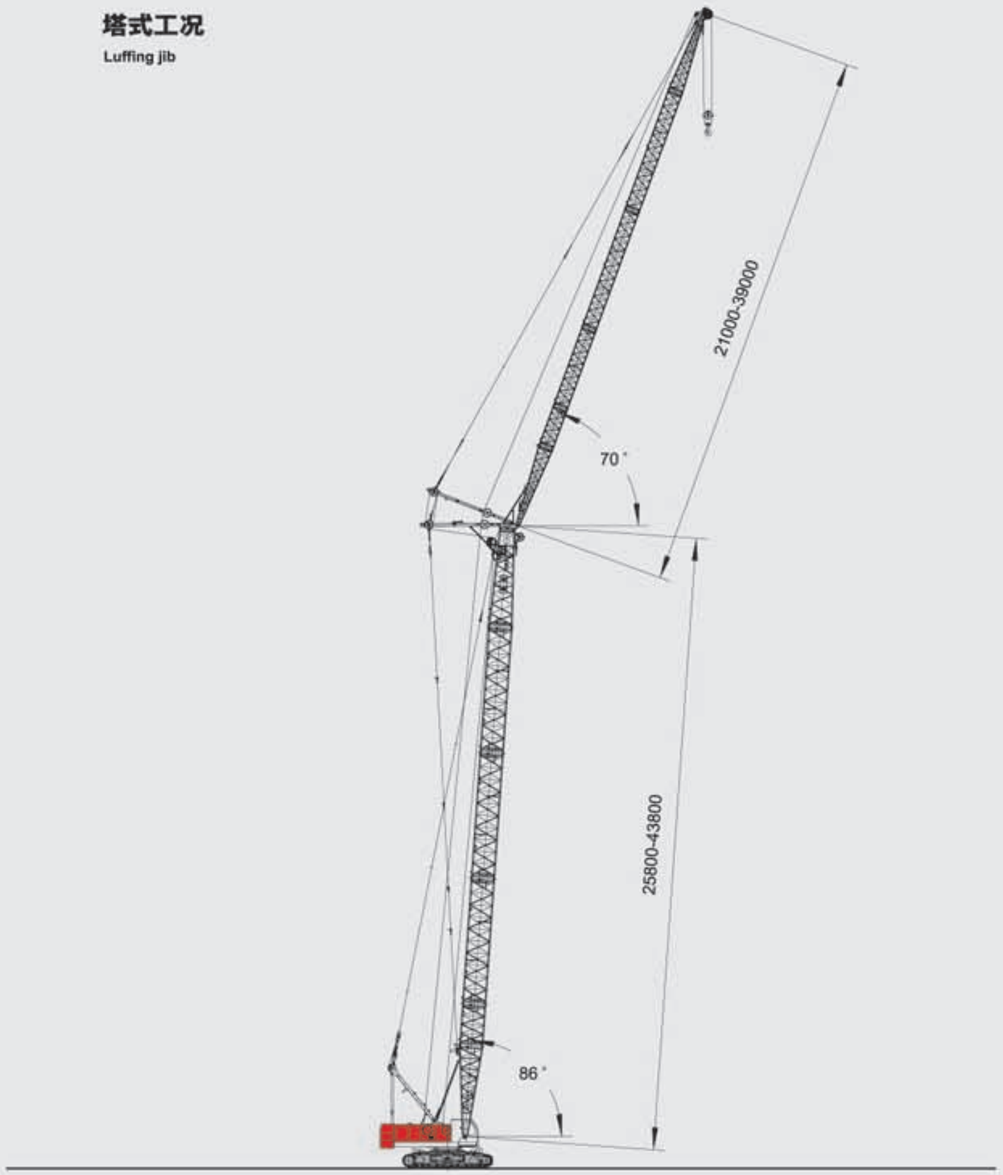
总体尺寸 Overall Dimensions

标准主臂
Standard Boom



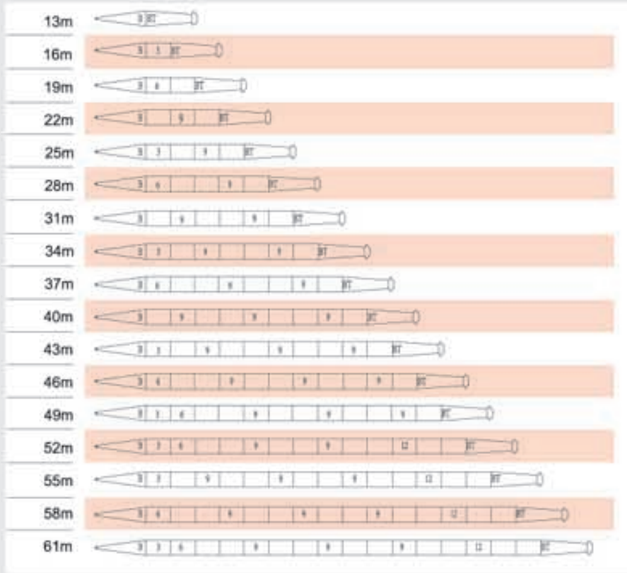
总体尺寸 Overall Dimensions

塔式工况
Luffing jib



主臂和副臂组合 Main Boom and Jib Combinations

标准主臂工况臂节组合 Boom Combination



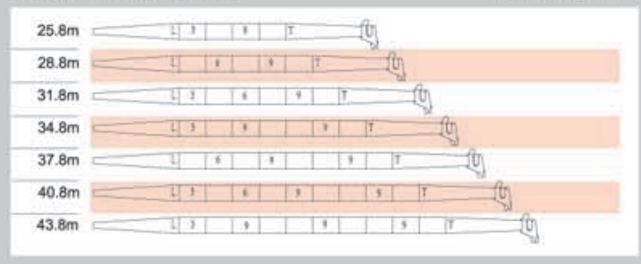
注解

符号	臂杆长度	备注
B	6.5米	6.5米基础臂节
BT	6.5米	6.5米顶部臂节
3	3米	3米臂节
6	6米	6米臂节
9	9米	9米臂节
12	12米	12米臂节

Note

Symbol	Boom length	Remarks
B	6.5m	8m Boom foot
BT	6.5m	8m Boom top
3	3m	3m section
6	6m	6m section
9	9m	9m section
12	12m	12m section

塔式工况主臂臂节组合 Boom combination



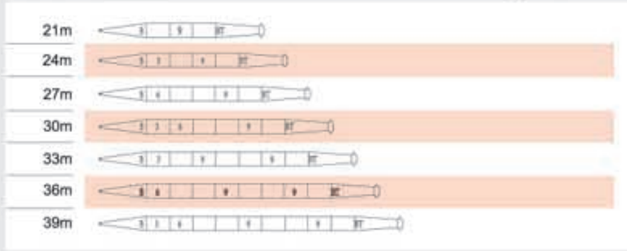
注解

符号	臂杆长度	备注
U	0.3米	0.3米臂头
3	3米	3米中间臂节
L	6.5米	6.5米基础臂
6	6米	6米中间臂节
9	9米	9米中间臂节
T	7米	7米过度臂节

Note

Symbol	Boom length	Remarks
U	0.3m	0.3m boom top
3	3m	3m boom insert
L	6.5m	6.5m boom foot
6	6m	6m boom insert
9	9m	9m boom insert
T	7m	7m tapered section

塔式工况副臂臂节组合 Luffing jib combination



注解

符号	臂杆长度	备注
B	6米	塔臂基础臂
BT	6米	塔臂顶部臂节
3	3米	塔臂3米臂节
6	6米	塔臂6米臂节
9	9米	塔臂9米臂节

Note

Symbol	Boom length	Remarks
B	6m	Luffing jib top
BT	6m	Luffing jib foot
3	3m	Luffing jib 3m section
6	6m	Luffing jib 6m section
9	9m	Luffing jib 9m section

标准主臂工况载荷表 Load Chart (Standard boom)

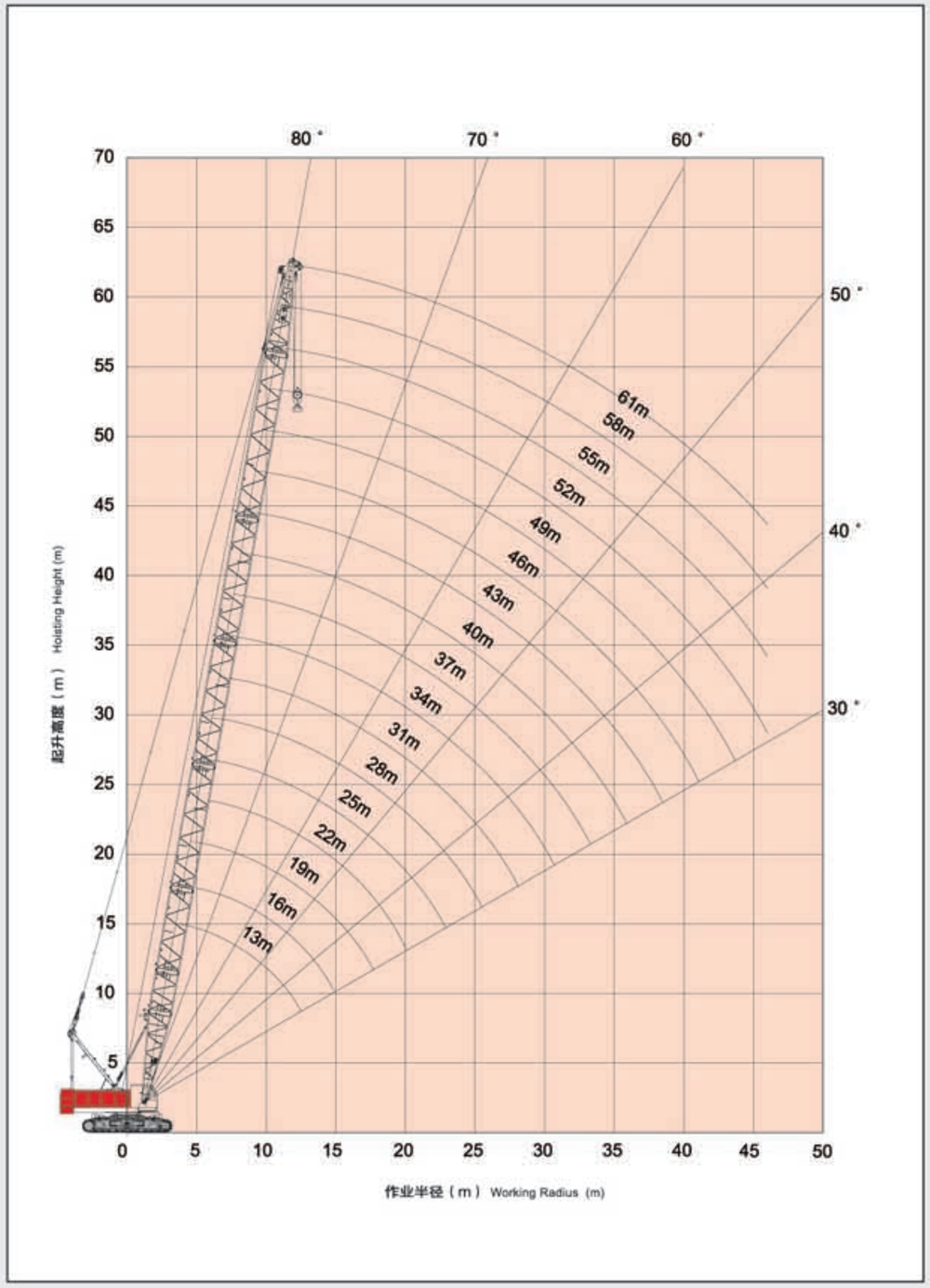
13m-61m　360°　26.2t

m	13	16	19	22	25	28	31	34	37	m
3	3.9/90									3
4	90	4.4/83.8	4.9/68.4							4
5	72.9	69.8	67	5.4/57.5	6.0/49.5					5
6	56.5	54.4	52.6	50.8	49.1	6.5/43.2				6
7	45.7	44.5	43.2	41.9	40.6	39.4	7.0/38.2	7.5/34.1		7
8	37.5	37.4	36.6	35.5	34.6	33.6	32.7	31.8	8.0/30.7	8
9	31.8	31.6	31.5	30.8	30	29.3	28.5	27.7	27	9
10	27.5	27.3	27.3	27.1	26.5	25.9	25.2	24.5	23.9	10
12	21.6	21.4	21.3	21.1	21	20.9	20.3	19.8	19.3	12
14	12.7/20.0	17.5	17.4	17.2	17.1	17	16.8	16.5	16.1	14
16		15.3/15.6	14.6	14.4	14.3	14.2	14	13.9	13.7	16
18			17.9/12.6	12.3	12.2	12.1	11.9	11.8	11.7	18
20				10.7	10.6	10.5	10.3	10.2	10.1	20
22				20.5/10.3	9.3	9.2	9	8.9	8.8	22
24					23.1/8.7	8.1	7.9	7.8	7.7	24
26						25.7/7.4	7	6.9	6.8	26
28							6.3	6.2	6.1	28
30							28.3/6.2	5.6	5.4	30
32								30.9/5.3	4.9	32
34									33.5/4.5	34
36										36
38										38
40										40
42										42
44										44
46										46

13m-61m　360°　26.2t

m	40	43	46	49	52	55	58	61		m
3										3
4										4
5										5
6										6
7										7
8	8.6/27.7									8
9	26.2	9..1/25.2	9.6/23							9
10	23.2	22.6	22	10.1/21	10.7/19.3	11.2/17.7	11.7/16.3			10
12	18.8	18.3	17.8	17.3	16.8	16.3	15.8	12.2/15		12
14	15.6	15.2	14.8	14.4	13.9	13.6	13.1	12.7		14
16	13.3	13	12.6	12.2	11.8	11.5	11.1	10.7		16
18	11.5	11.2	10.9	10.5	10.1	9.8	9.5	9.2		18
20	9.9	9.7	9.5	9.1	8.8	8.5	8.2	7.9		20
22	8.6	8.4	8.3	8	7.7	7.5	7.2	6.9		22
24	7.5	7.4	7.3	7.1	6.8	6.6	6.3	6		24
26	6.6	6.5	6.4	6.2	6.1	5.8	5.6	5.3		26
28	5.9	5.8	5.6	5.4	5.3	5.2	4.9	4.7		28
30	5.2	5.1	5	4.8	4.7	4.5	4.4	4.1		30
32	4.7	4.6	4.4	4.2	4.1	4	3.9	3.7		32
34	4.2	4.1	3.9	3.7	3.6	3.5	3.4	3.2		34
36	3.8	3.6	3.5	3.3	3.2	3.1	3	2.8		36
38	36.1/3.7	3.3	3.1	2.9	2.8	2.7	2.6	2.4		38
40		38.7/3.1	2.8	2.6	2.5	2.4	2.2	2.1		40
42			41.3/2.6	2.3	2.2	2.1	1.9	1.8		42
44				43.9/2.0	1.9	1.8	1.6	1.5		44
46					1.6	1.5	1.4	1.2		46

标准主臂工况作业范围 Working Range (Standard Boom)



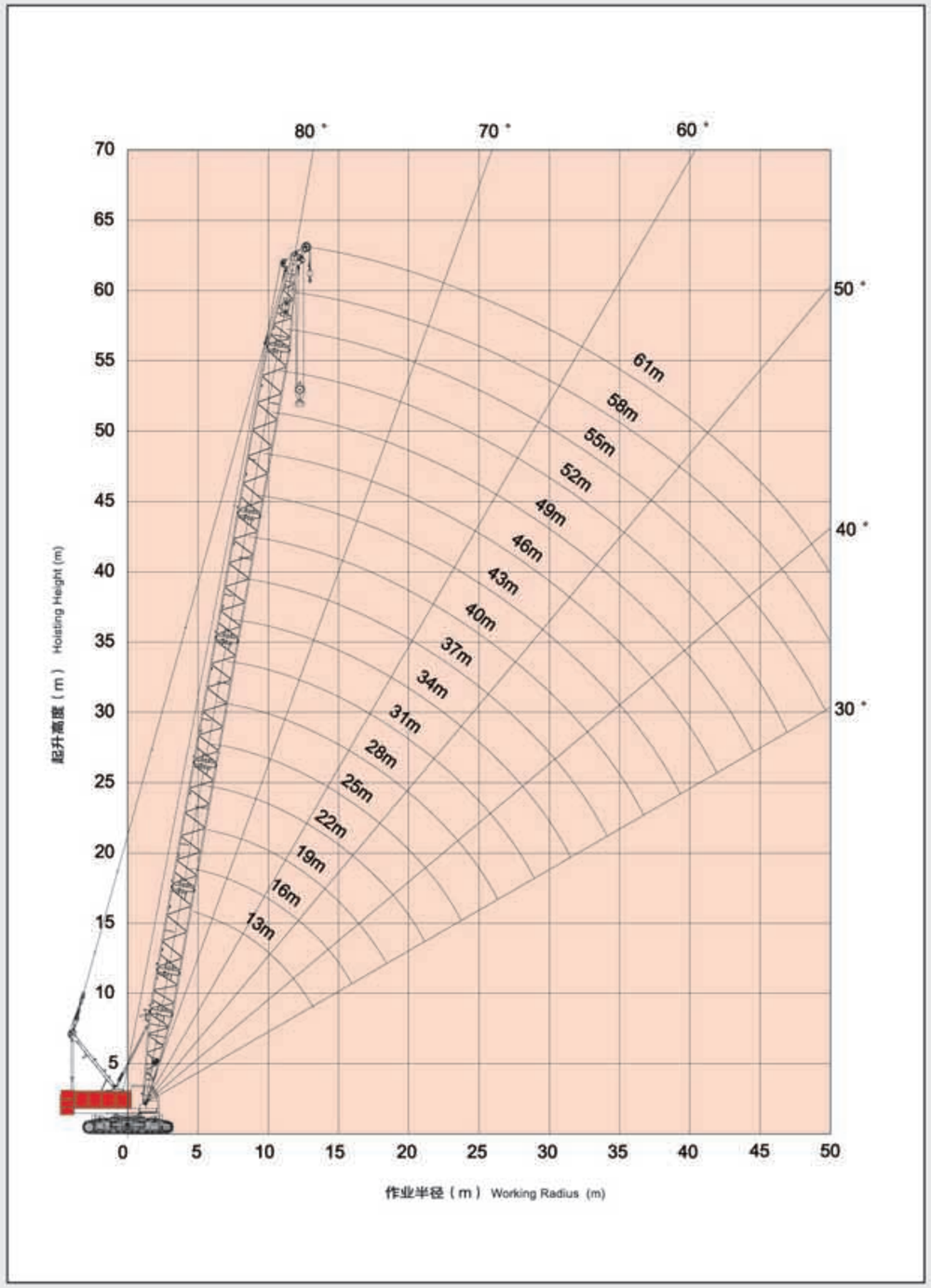
加长主臂工况载荷表 Load Chart (Runner)

13m-61m　360°　26.2t

m	13	16	19	22	25	28	31	34	37	m
3										3
4	4.2/9.0	4.7/9.0								4
5	9.0	9.0	5.2/9.0	5.7/9.0						5
6	9.0	9.0	9.0	9.0	6.3/9.0	6.8/9.0				6
7	9.0	9.0	9.0	9.0	9.0	9.0	7.3/9.0	7.8/9.0		7
8	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.4/9.0	8
9	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9
10	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	10
11	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	11
12	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	12
14	12.9/9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	14
16		15.5/9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	16
18			9.0	9.0	9.0	9.0	9.0	9.0	9.0	18
20				9.0	9.0	9.0	9.0	9.0	9.0	20
22				20.6/9.0	8.8	8.7	8.5	8.4	8.3	22
24					23.2/8.1	7.6	7.4	7.3	7.2	24
26						25.8/6.7	6.6	6.5	6.3	26
28							5.8	5.7	5.6	28
30							28.4/5.7	5.1	4.9	30
32								31.0/4.8	4.4	32
34									33.6/4.0	34
36										36
38										38
40										40
42										42
44										44
46										46

m	40	43	46	49	52	55	58	61		m
4										4
5										5
6										6
7										7
8	8.9/9.0									8
9	9.0	9.4/9.0	9.9/9.0							9
10	9.0	9.0	9.0	10.4/9.0	11.0/9.0					10
11	9.0	9.0	9.0	9.0	9.0	11.5/9.0				11
12	9.0	9.0	9.0	9.0	9.0	9.0	12.0/9.0	12.5/9.0		12
14	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0		14
16	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0		16
18	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.7		18
20	9.0	9.0	9.0	8.7	8.9	8.1	8.8	7.5		20
22	8.1	8.0	7.9	7.5	7.8	7.0	6.7	6.4		22
24	7.0	6.9	6.8	6.6	6.9	6.1	5.9	5.6		24
26	6.1	6.0	5.9	5.7	6.1	5.4	5.1	4.8		26
28	5.4	5.3	5.2	5.0	5.3	4.7	4.5	4.2		28
30	4.7	4.6	4.5	4.3	4.7	4.1	3.9	3.7		30
32	4.2	4.1	4.0	3.8	4.1	3.5	3.4	3.2		32
34	3.7	3.6	3.5	3.3	3.6	3.0	2.9	2.8		34
36	3.3	3.2	3.0	2.8	3.2	2.6	2.5	2.3		36
38	36.2/3.2	2.8	2.7	2.5	2.8	2.2	2.1	2.0		38
40		38.8/2.6	2.3	2.1	2.5	1.9	1.8	1.6		40
42			41.4/2.1	1.8	2.2	1.6	1.4	1.3		42
44				1.5	1.9	1.3	1.3	1.0		44
46				44.0/1.5	1.6	1.0	0.9	0.8		46

加长主臂工况作业范围 Working Range (Runner)



塔式工况载荷表 Load Chart (Luffing jib)

86° 76° 66°
25.8m-43.8m

15°–70°
21m-39m

360°

26.2t

25.8

m	21			24			27			30			m
	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	
10													10
12	18.4												12
14	15.8			15.4			15.1						14
16	13.9			13.6			13.2			12.9			16
18	12.4			12.1			11.8			11.5			18
20	11.2	10.2		10.9			10.6			10.3			20
22	10.2	9.3		9.9	9		9.7	8.8		9.4			22
24	9.5	8.5		9.1	8.3		8.9	8		8.6	7.8		24
26		7.9		8.4	7.6		8.2	7.4		7.9	7.2		26
28		7.3	6.6		7.1		7.6	6.9		7.4	6.6		28
30			6.1		6.6	6		6.4	5.8	6.9	6.2		30
32			5.6			5.5		6	5.4	6.5	5.8	5.2	32
34						5.1		5.6	5		5.4	4.9	34
36									4.7		5.1	4.6	36
38									4.4			4.2	38
40												4	40
42													42
44													44
46													46
48													48
50													50

25.8

m	33			36			39			m
	86°	76°	66°	86°	76°	66°	86°	76°	66°	
10										10
12										12
14										14
16	12.6									16
18	11.2			10.9			9.8			18
20	10.1			9.8			9.1			20
22	9.2			8.9			8.4			22
24	8.4			8.2			7.8			24
26	7.7	7		7.5			7.3			26
28	7.2	6.4		7	6.3		6.7	6		28
30	6.7	6		6.5	5.8		6.3	5.6		30
32	6.2	5.6		6	5.4		5.8	5.2		32
34	5.9	5.2	4.7	5.7	5.1		5.4	4.9		34
36		4.9	4.4	5.3	4.7	4.2	5.1	4.5		36
38		4.6	4.1	5.1	4.5	4	4.7	4.3	3.8	38
40		4.3	3.9		4.2	3.7	4.4	4	3.5	40
42			3.6		4	3.5		3.8	3.3	42
44			3.4			3.3		3.6	3.2	44
46						3.1			3	46
48									2.8	48
50									2.6	50

塔式工况载荷表 Load Chart (Luffing jib)

86° 76° 66°
25.8m-43.8m

15°–70°
21m-39m

360°

26.2t

28.8

m	21			24			27			30			m
	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	
10													10
12	17.9												12
14	15.4			15			14.7						14
16	13.6			13.2			12.9			12.6			16
18	12.1			11.8			11.5			11.2			18
20	11	9.9		10.6			10.4			10.1			20
22	10	9		9.7	8.7		9.4			9.2			22
24	9.2	8.2		8.9	8		8.7	7.7		8.4			24
26		7.6		8.3	7.3		8	7.1		7.7	6.9		26
28		7.1	6.3		6.8		7.4	6.6		7.2	6.4		28
30			5.9		6.4	5.6	7	6.1		6.7	5.9		30
32			5.4		5.9	5.3		5.8	5.1	6.3	5.5	4.6	32
34						4.9		5.4	4.8		5.2	4.3	34
36						4.6			4.5		4.9	4	36
38									4.2			3.8	38
40												3.5	40
42													42
44													44
46													46
48													48
50													50

28.8

m	33			36			39			m
	86°	76°	66°	86°	76°	66°	86°	76°	66°	
10										10
12										12
14										14
16	12.2									16
18	10.9			10.6			9.8			18
20	9.8			9.6			9.1			20
22	8.9			8.7			8.4			22
24	8.2			8			7.7			24
26	7.5	6.7		7.3			7.1			26
28	7	6.2		6.8	6		6.6			28
30	6.5	5.7		6.3	5.6		6.1	5.3		30
32	6.1	5.3		5.9	5.2		5.7	5		32
34	5.7	5		5.5	4.8		5.3	4.6		34
36		4.7	4.1	5.2	4.5		5	4.3		36
38		4.4	3.9	4.9	4.3	3.7	4.7	4.1		38
40		4.2	3.6		4	3.5	4.5	3.8	3.3	40
42			3.4		3.8	3.3		3.6	3.1	42
44			3.2			3.1		3.4	2.9	44
46						3		3.3	2.8	46
48						2.8			2.6	48
50									2.5	50

塔式工况载荷表 Load Chart (Luffing jib)

86° 76° 66°
25.8m-43.8m

15°–70°
21m-39m

360°

26.2t

31.8

m	21			24			27			30			m
	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	
10													10
12	17.4												12
14	15			14.6			14.3						14
16	13.2			12.9			12.6			12.2			16
18	11.8			11.5			11.2			10.9			18
20	10.7			10.4			10.1			9.8			20
22	9.8	8.6		9.5	8.3		9.2			8.9			22
24	9	7.9		8.7	7.6		8.5	7.4		8.2			24
26		7.3		8.1	7		7.8	6.8		7.6	6.6		26
28		6.8			6.5		7.3	6.3		7	6.1		28
30			5.5		6.1		6.8	5.9		6.6	5.7		30
32			5.2		5.7	4.9		5.5		6.2	5.3		32
34			4.8			4.6		5.2	4.4		4.9		34
36						4.4			4.2		4.7	4	36
38						4.1			3.9		4.4	3.7	38
40									3.7			3.5	40
42												3.3	42
44													44
46													46
48													48
50													50
52													52

31.8

m	33			36			39			m
	86°	76°	66°	86°	76°	66°	86°	76°	66°	
10										10
12										12
14										14
16	11.9									16
18	10.6			10.3			9.9			18
20	9.6			9.3			9.1			20
22	8.7			8.5			8.2			22
24	8			7.8			7.5			24
26	7.4			7.1			6.9			26
28	6.8	5.9		6.6	5.7		6.4			28
30	6.3	5.5		6.2	5.3		5.9	5.1		30
32	5.9	5.1		5.7	4.9		5.5	4.7		32
34	5.6	4.8		5.4	4.6		5.2	4.4		34
36	5.3	4.5		5.1	4.3		4.9	4.1		36
38		4.2	3.6	4.8	4.1		4.6	3.9		38
40		4	3.4		3.8	3.2	4.4	3.6		40
42			3.2		3.6	3		3.4	2.8	42
44			3		3.5	2.8		3.3	2.7	44
46			2.9			2.7		3.1	2.5	46
48						2.6			2.4	48
50									2.3	50
52									2.2	52

塔式工况载荷表 Load Chart (Luffing jib)

86° 76° 66°
25.8m-43.8m

15°–70°
21m-39m

360°

26.2t

34.8

m	21			24			27			30			m
	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	
10													10
12	16.9												12
14	14.6			14.2			13.9						14
16	12.9			12.5			12.2			11.9			16
18	11.5			11.2			10.9			10.6			18
20	10.4			10.1			9.9			9.6			20
22	9.5	8.3		9.2			9			8.7			22
24	8.8	7.6		8.5	7.3		8.2			8			24
26		7		7.9	6.7		7.6	6.5		7.4	6.3		26
28		6.5			6.2		7.1	6		6.8	5.8		28
30		6.1	5.2		5.8		6.7	5.6		6.4	5.4		30
32			4.8		5.5	4.6		5.3		6	5		32
34			4.5			4.3		4.9	4.1		4.7		34
36			4.3			4.1		4.7	3.9		4.4	3.7	36
38						3.8			3.7		4.2	3.5	38
40									3.5			3.3	40
42									3.3			3.1	42
44												2.9	44
46													46
48													48
50													50
52													52

34.8

m	33			36			39			m
	86	76°	66°	86°	76°	66°	86°	76°	66°	
10										10
12										12
14										14
16	11.6									16
18	10.3			10.1			9.8			18
20	9.3			9.1			8.8			20
22	8.5			8.2			8			22
24	7.8			7.6			7.3			24
26	7.2			7			6.7			26
28	6.6	5.6		6.4			6.2			28
30	6.2	5.2		6	5		5.8			30
32	5.8	4.9		5.6	4.7		5.4	4.5		32
34	5.4	4.5		5.3	4.4		5	4.2		34
36	5.2	4.3		4.9	4,1		4.7	3.9		36
38		4	3.3	4.7	3.9		4.5	3.7		38
40		3.8	3.1		3.6	2.9	4.2	3.4		40
42		3.6	2.9		3.4	2.8	4	3.2	2.6	42
44			2.8		3.3	2.6		3.1	2.4	44
46			2.6			2.5		2.9	2.3	46
48						2.3		2.8	2.2	48
50						2.2			2	50
52									1.9	52

塔式工况载荷表 Load Chart (Luffing jib)

86° 76° 66°
25.8m-43.8m

15°–70°
21m-39m

360°

26.2t

m	37.8												m
	21			24			27			30			
	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	
14	14.2			13.8									14
16	12.5			12.2			11.9			11.5			16
18	11.2			10.9			10.6			10.3			18
20	10.2			9.9			9.6			9.3			20
22	9.3	7.9		9			8.7			8.5			22
24	8.6	7.2		8.3	6.9		8			7.8			24
26		6.6		7.7	6.4		7.4	6.2		7.2			26
28		6.2			5.9		6.9	5.7		6.7	5.5		28
30		5.8			5.5		6.5	5.3		6.2	5.1		30
32			4.5		5.2			5		5.8	4.8		32
34			4.2		4.9	4		4.7			4.5		34
36			3.9			3.7		4.4	3.6		4.2		36
38						3.5			3.3		4	3.1	38
40						3.3			3.2		3.8	3	40
42									3			2.8	42
44												2.6	44
46												2.5	46
48													48
50													50
52													52
54													54

m	37.8									m
	33			36			39			
	86°	76°	66°	86°	76°	66°	86°	76°	66°	
14										14
16										16
18	10			9.8						18
20	9.1			8.8			8.5			20
22	8.2			8			7.7			22
24	7.5			7.3			7.1			24
26	7			6.8			6.5			26
28	6.5	5.3		6.3			6			28
30	6	4.9		5.8	4.7		5.6			30
32	5.6	4.6		5.4	4.4		5.2	4.2		32
34	5.3	4.3		5.1	4.1		4.9	3.9		34
36	5	4		4.8	3.8		4.6	3.7		36
38		3.8		4.5	3.6		4.3	3.4		38
40		3.6	2.8		3.4		4.1	3.2		40
42		3.4	2.6		3.2	2.5	3.9	3		42
44			2.5		3.1	2.3		2.9	2.1	44
46			2.3			2.2		2.7	2	46
48			2.2			2.1		2.6	1.9	48
50						2			1.8	50
52						1.9			1.7	52
54									1.6	54

塔式工况载荷表 Load Chart (Luffing jib)

86° 76° 66°
25.8m-43.8m

15°–70°
21m-39m

360°

26.2t

m	40.8												m
	21			24			27			30			
	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	
14	13.8			13.4									14
16	12.2			11.9			11.5			11.2			16
18	10.9			10.6			10.3			10			18
20	9.9			9.6			9.3			9			20
22	9.1			8.8			8.5			8.2			22
24	8.4	6.9		8.1			7.8			7.6			24
26		6.3		7.5	6.1		7.2	5.9		7			26
28		5.9		7	5.6		6.7	5.4		6.5	5.2		28
30		5.5			5.3		6.3	5.1		6	4.8		30
32		5.2			4.9			4.7		5.7	4.5		32
34			3.9		4.6			4.4			4.2		34
36			3.6			3.4		4.2			4		36
38			3.4			3.2			3.1		3.7	2.9	38
40						3			2.9		3.5	2.7	40
42									2.7			2.5	42
44									2.6			2.4	44
46												2.3	46
48													48
50													50
52													52
54													54
56													56

m	40.8									m
	33			36			39			
	86°	76°	66°	86°	76°	66°	86°	76°	66°	
14										14
16										16
18	9.7			9.5						18
20	8.8			8.5			8.3			20
22	8			7.8			7.5			22
24	7.3			7.1			6.9			24
26	6.8			6.6			6.3			26
28	6.3			6.1			5.9			28
30	5.8	4.7		5.7			5.4			30
32	5.5	4.3		5.3	4.2		5.1	3.9		32
34	5.1	4		5	3.9		4.7	3.7		34
36	4.9	3.8		4.7	3.6		4.5	3.4		36
38		3.6		4.4	3.4		4.2	3.2		38
40		3.4	2.5		3.2		4	3		40
42		3.2	2.4		3	2.2	3.8	2.8		42
44			2.2		2.9	2.1		2.7	1.9	44
46			2.1		2.7	1.9		2.5	1.8	46
48			2			1.8		2.4	1.7	48
50			1.9			1.7			1.6	50
52						1.6			1.5	52
54									1.4	54
56									1.3	56

塔式工况载荷表 Load Chart (Luffing jib)


86° 76° 66°
25.8m-43.8m


15°–70°
21m-39m


360°


26.2t

m	43.8												m
	21			24			27			30			
	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	
14	13.4			13									14
16	11.9			11.5			11.2			10.8			16
18	10.6			10.3			10			9.7			18
20	9.6			9.3			9.1			8.8			20
22	8.8			8.5			8.3			8			22
24	8.1	6.5		7.8			7.6			7.3			24
26		6		7.3	5.8		7			6.8			26
28		5.6		6.8	5.3		6.5	5.1		6.3	4.9		28
30		5.2			5		6.1	4.8		5.9	4.6		30
32		4.9			4.7			4.5		5.5	4.3		32
34			3.5		4.4			4.2		5.2	4		34
36			3.3			3.1		3.9			3.7		36
38			3.1			2.9		3.7	2.8		3.5		38
40			3			2.8			2.6		3.3	2.4	40
42						2.6			2.4			2.2	42
44									2.3			2.1	44
46												2	46
48												1.9	48
50													50
52													52
54													54
56													56

m	43.8												m
	33			36			39						
	86°	76°	66°	86°	76°	66°	86°	76°	66°				
14													14
16													16
18	9.4			9.2									18
20	8.5			8.3			8						20
22	7.8			7.5			7.3						22
24	7.1			6.9			6.7						24
26	6.6			6.4			6.1						26
28	6.1			5.9			5.7						28
30	5.7	4.4		5.5			5.3						30
32	5.3	4.1		5.1	3.9		4.9						32
34	5	3.8		4.8	3.6		4.6	3.4					34
36	4.7	3.6		4.5	3.4		4.3	3.2					36
38		3.3		4.3	3.2		4.1	3					38
40		3.2			3		3.8	2.8					40
42		3	2.1		2.8		3.7	2.6					42
44		2.8	2		2.7	1.8		2.5					44
46			1.8		2.5	1.7		2.3	1.5				46
48			1.7			1.6		2.2	1.4				48
50			1.6			1.5		2.1	1.3				50
52						1.4			1.2				52
54						1.3			1.1				54
56									1.1				56

载荷表说明 Notes for Load Chart

说明

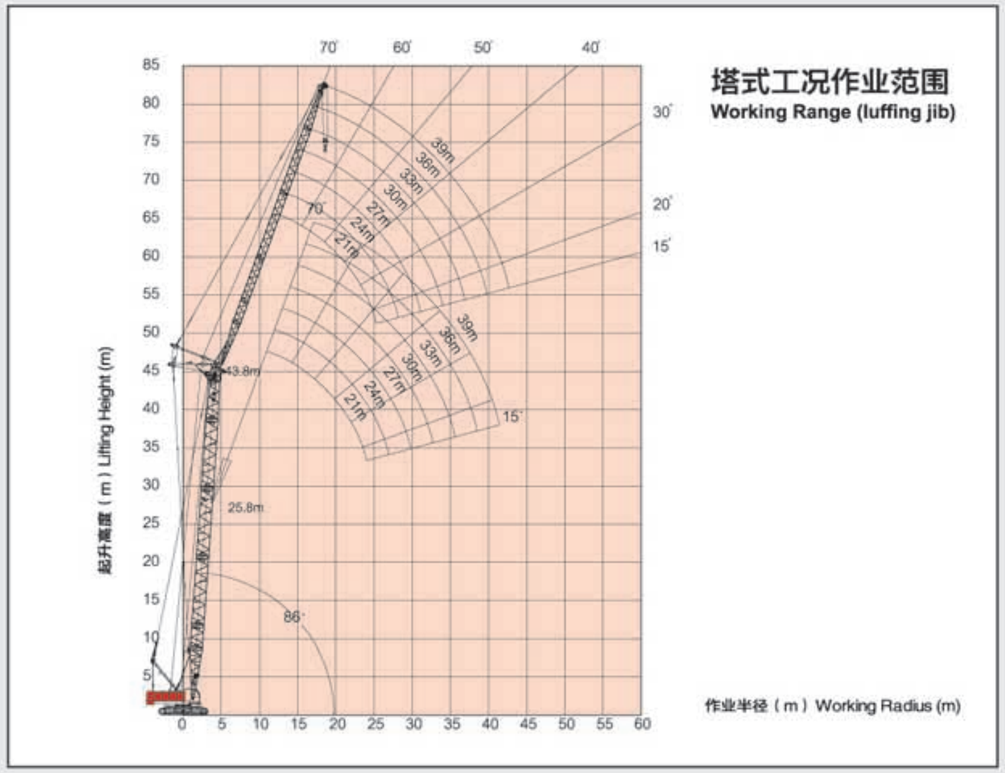
1. 本起重机符合 GB3811 标准，同时又满足 ISO 4302、ISO 4305 标准。
2. 载荷表所表示的额定总载荷值为水平坚硬地面上，理想作业条件的最大允许值。
3. 载荷表所示的值以吨为单位，并基于倾翻力矩 78% 以内的值及移动式起重机结构标准所确定的前方稳定度在 1.15 以内。
4. 载荷表所示的值基于平衡负载而计算，不包括如突然停止的冲击负载，地表状况，风力负荷及操作速度等影响。如在此条件下，驾驶员必须进行减载作业。同时，载荷表中的值还要扣除如吊钩，吊具等的自重。

吊钩自重：90 吨钩 .....1.28 吨，50 吨钩 .....0.685 吨，30 吨钩 .....0.52 吨，11 吨钩 .....0.282 吨。

5. 可安装加长臂的主臂长度为 13～61m。
6. 塔式工况时，主臂长度为 25.8～43.8m，副臂长度为 21～39m。
7. 载荷表中( )中数据为实际作业半径下的载荷。
8. 平衡重质量为 26.2t。
9. 侧面时的稳定值最小。

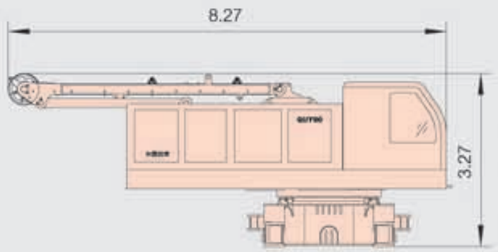
Notes

1.Ratings according to GB3811, ISO 4302 and ISO 4305.
2.The rated load in the table is the maximum allowed value when the crane works on the level and firm ground and under the ideal conditions.
3.The unit in the table is ton and the rated Lifting capacity is 75% of tipping load. The front stability is within 1.15 as specified in the standard of the structure of mobile crane.
4.The values in the table are calculated on the stable load, not including impacting load, the hard condition of ground and operating speed. So the driver should reduce the corresponding load from the capacity ratings, the weight of hook and slings should also be deducted from the capacity ratings.
Weight of hook block：90T hook block.....1.28T，50T hook block.....0.685T，30T hook block.....0.52T，11T hook block.....0.282T
5. When mounted with runner, length of boom is from 13～61m.
6. When mounted with luffing jib, boom length is 25.8～43.8m. Length of luffing jib is 21～39m.
7.The values in ( ) in load chart is the load based on the actual working radius.
8. The weight of counterweight is 26.2t
9.The stability is weak at side.



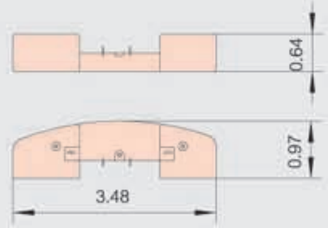
主要零部件运输尺寸 Dimensions for Transportation

尺寸单位：m Unit: m



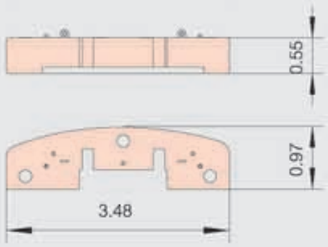
本体(不含配重)	x1	Carbody(not inclouding counterweight)	x1
长	8.27m	Length	8.27m
宽	3.28m	Width	3.28m
高	3.27m	Height	3.27m
重量	28322Kg	Weight	28322Kg

履带总成	x2	Crawler assy	x2
长	6.45m	Length	6.45m
宽	0.86m	Width	0.86m
高	1.14m	Height	1.14m
重量	11000Kg	Weight	11000Kg

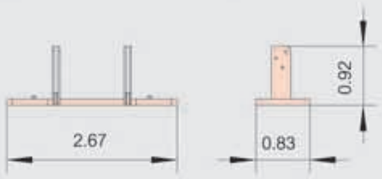


配重 A	x1	Counterweight A	x1
长	3.48m	Length	3.48m
宽	0.97m	Width	0.97m
高	0.64m	Height	0.64m
重量	9445Kg	Weight	9445Kg

配重B	x1	Counterweight B	x1
长	3.48m	Length	3.48m
宽	0.97m	Width	0.97m
高	0.55m	Height	0.55m
重量	9320Kg	Weight	9320Kg



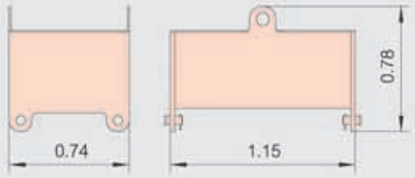
配重C	x1	Counterweight C	x1
长	3.48m	Length	3.48m
宽	0.97m	Width	0.97m
高	0.55m	Heigth	0.55m
重量	8378Kg	Weigth	8378Kg



配重D	x1	Counterweight D	x1
长	2.67m	Length	2.67m
宽	0.83m	Width	0.83m
高	0.92m	Heigth	0.92m
重量	4862Kg	Weigth	4862Kg

主要零部件运输尺寸 Dimensions for Transportation

尺寸单位：m Unit: m



压重	x1	Central ballast	x1
长	1.15m	Length	1.15m
宽	0.74m	Width	0.74m
高	0.78m	Height	0.78m
重量	2006Kg	Weight	2006Kg

基础臂节	x1	Boom foot	x1
长	6.78m	Length	6.78m
宽	1.72m	Width	1.72m
高	2.08m	Height	2.08m
重量	1390Kg	Weight	1390Kg

顶部臂节	x1	Boom top	x1
长	7.12m	Length	7.12m
宽	1.72m	Width	1.72m
高	1.83m	Height	1.83m
重量	1815Kg	Weight	1815Kg

3米臂节	x1	3m section	x1
长	3.14m	Length	3.14m
宽	1.72m	Width	1.72m
高	1.82m	Height	1.82m
重量	595Kg	Weight	595Kg

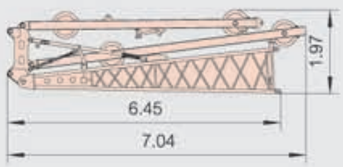
6米臂节	x1	6m section	x1
长	6.14m	Length	6.14m
宽	1.72m	Width	1.72m
高	1.82m	Height	1.82m
重量	890Kg	Weight	890Kg

主要零部件运输尺寸 Dimensions for Transportation

尺寸单位：m Unit: m

9米臂节	x3	9m section	x3
长	9.14m	Length	9.14m
宽	1.72m	Width	1.72m
高	1.82m	Height	1.82m
重量	1150Kg	Weight	1150Kg

12米臂节	x1	12m section	x1
长	12.14m	Length	12.14m
宽	1.72m	Width	1.72m
高	1.82m	Height	1.82m
重量	1435Kg	Weight	1435Kg



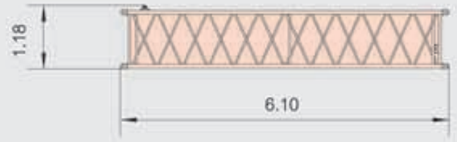
塔臂基础臂	x1	luffing jib foot	x1
长	7.04m	Length	7.04m
宽	1.20m	Width	1.20m
高	1.97m	Height	1.97m
重量	3128Kg	Weight	3128Kg

塔臂顶部臂节	x1	luffing jib top	x1
长	6.43m	Length	6.43m
宽	1.20m	Width	1.20m
高	1.25m	Height	1.25m
重量	751Kg	Weight	751Kg

塔臂3米臂节	x1	luffing jib 3m section	x1
长	3.10m	Length	3.10m
宽	1.20m	Width	1.20m
高	1.18m	Height	1.18m
重量	231Kg	Weight	231Kg

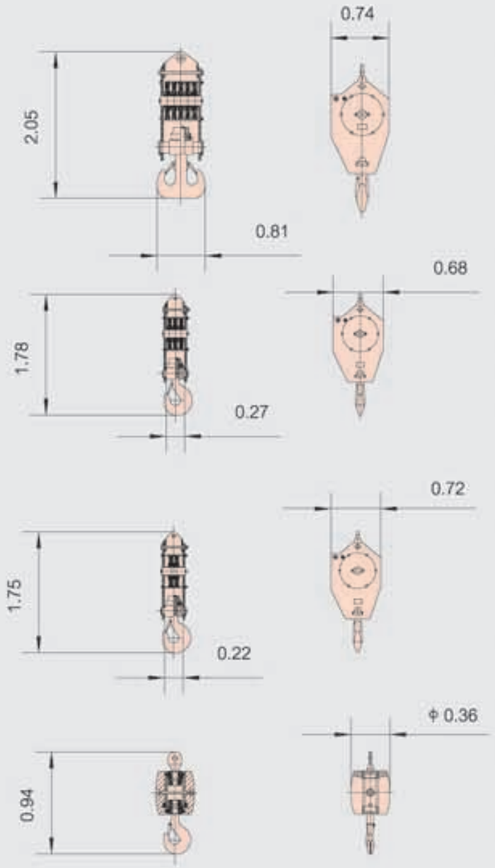
主要零部件运输尺寸 Dimensions for Transportation

尺寸单位：m Unit: m



塔臂6米臂节	x1	Luffing jib 6m section	x1
长	6.10m	Length	6.10m
宽	1.20m	Width	1.20m
高	1.18m	Height	1.18m
重量	398Kg	Weight	398Kg

塔臂9米臂节	x2	Luffing jib 9m section	x2
长	9.10m	Length	9.10m
宽	1.20m	Width	1.20m
高	1.18m	Height	1.18m
重量	555Kg	Weight	555Kg



90吨吊钩	x1	90t Hook	x1
长	2.05m	Length	2.05m
宽	0.74m	Width	0.74m
高	0.81m	Height	0.81m
重量	1280Kg	Weight	1280Kg

50吨吊钩	x1	50t Hook	x1
长	1.78m	Length	1.78m
宽	0.68m	Width	0.68m
高	0.27m	Height	0.27m
重量	685Kg	Weight	685Kg

30吨吊钩	x1	30t Hook	x1
长	1.75m	Length	1.75m
宽	0.72m	Width	0.72m
高	0.22m	Height	0.22m
重量	520Kg	Weight	520Kg

11吨吊钩	x1	11t Hook	x1
长	0.94m	Length	0.94m
宽	0.36m	Width	0.36m
高	0.36m	Height	0.36m
重量	282Kg	Weight	282Kg